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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,704	11/18/2003	Thomas Voss	ZAHFRI P572US	5407
20210	7590	05/10/2004	EXAMINER	
DAVIS & BUJOLD, P.L.L.C. FOURTH FLOOR 500 N. COMMERCIAL STREET MANCHESTER, NH 03101-1151			MAYO III, WILLIAM H	
			ART UNIT	PAPER NUMBER
			2831	

DATE MAILED: 05/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/715,704	<b>Applicant(s)</b> VOSS ET AL.	
	<b>Examiner</b> William H. Mayo III	<b>Art Unit</b> 2831	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) ☐ Responsive to communication(s) filed on \_\_\_\_.

2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) ☒ Claim(s) 8-13 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.

5) ☐ Claim(s) \_\_\_\_ is/are allowed.

6) ☒ Claim(s) 8-13 is/are rejected.

7) ☐ Claim(s) \_\_\_\_ is/are objected to.

8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) ☒ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☒ All    b) ☐ Some    \* c) ☐ None of:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>02/11/04</u> .	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____. 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6) <input type="checkbox"/> Other: _____.
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## **DETAILED ACTION**

### ***Priority***

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in present Application No. 10/715,704, filed on November 18, 2003.

### ***Information Disclosure Statement***

2. The information disclosure statement filed February 11, 2004 has been submitted for consideration by the Office. It has been placed in the application file and the information referred to therein has been considered.

### ***Specification***

3. The disclosure is objected to because of the following informalities: The specification contains a few misspelled words such as "insulting" on page 2, paragraph 11. The applicant is required to proofread the specification and correct all misspelled words.

Appropriate correction is required.

### ***Claim Objections***

4. Claim 13 is objected to because of the following informalities: In claim 13, line 2, replace the term "a" with the term --an--. Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Imai et al (Pat Num 4,439,255, herein referred to as Imai). Imai discloses an insulated coil (Figs 1-5) capable of being utilized for wires of an electrical engine of motor vehicles (Col 2, lines 20-22). Specifically, with respect to claim 8, Imai discloses that the insulated coil (Fig 1) containing a wire (10), wherein the wire (10) consists of an insulating material (16 & 17), wherein the insulating materials (16 & 17) permit operation at temperatures above 200°C (Col 2, lines 5-12). With respect to claim 9, Imai discloses the insulating materials (16 & 17) serve as spacers (i.e. when the wire is wound as a coil the insulating materials act as spacers between the turns of the coil) and inherently protect against contact such that no flashover danger exist in the case of low voltages (Col 2, lines 43-54). With respect to claim 10, Imai discloses that the insulating material (16 & 17) may be made of glass filaments (Col 1, lines 54-57). With respect to claim 11, Imai discloses that the insulating material (16 & 17) may comprise an additional layer (18) may of ceramic elastic thin layer (i.e. baked polyamidoimido resin, Col 4, lines 62-66). With respect to claim 14, Imai discloses that the insulated coil (Figs 1-5) is capable of being utilized for wires of an electrical engine of motor vehicles (Col 2, lines 20-22), wherein the insulated coil (Fig 1) contains a wire (10) having an insulating material (16

& 17), wherein the insulating materials (16 & 17) permit operation at temperatures above 200°C (Col 2, lines 5-12).

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Imai (Pat Num 4,439,255) in view of Tridelta (DE Pat Num 4407781A1). Imai discloses an insulated coil (Figs 1-5) capable of being utilized for wires of an electrical engine of motor vehicles (Col 2, lines 20-22), as disclosed above with respect to claim 8 & 12.

However, Imai doesn't specifically disclose the electrical engine further

comprising a housing and an axis consisting of at least one of a thermally insulating ceramic or plastic (claim 13).

Tridelta teaches a small high precision instrument (Figs 1-3) for machine modules for mounting of components, such as rotary bearings having superior electrical and thermal insulating properties, wherein the housing is combined in one piece of recyclable parts (abstract). Specifically, with respect to claim 13, Tridelta teaches a housing (1) that may be utilized with coils of an electrical engine wherein the housing (1) has an axis (center), and wherein the housing (1) may consist of thermally insulating plastic (i.e. silicates, abstract).

With respect to claim 13, it would have been obvious to one having ordinary skill in the art of cables at the time the invention was made to modify the insulated coil of Imai to comprise the housing configuration as taught by Tridelta because Tridelta teaches that such a small high precision is commonly utilized for machine modules and mounting of components, such as rotary bearings and has superior electrical and thermal insulating properties, wherein the housing is combined in one piece of recyclable parts (abstract).

### ***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are Rhudy et al (Pat Num 4,008,409), Bretts et al (Pat Num 4,189,618), Smith et al (Pat Num 5,633,477), Liptak et al (Pat Num 5,099,159), Anderson et al (Pat Num 3,735,168), Reimer et al (Pat Num 3,431,639), Flynn et al (Pat


Num 2,570,786), Wieseman (Pat Num 2,201,845), and Theodorides (Pat Num 6,225,564), all of which disclose insulating coils.

***Communication***

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Mayo III whose telephone number is (571)-272-1978. The examiner can normally be reached on M-F 8:30am-6:00 pm (alternate Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



WHM III

William H. Mayo III  
Primary Examiner  
Art Unit 2831